

## Graphene (water dispersion)

### GENERAL INFORMATION

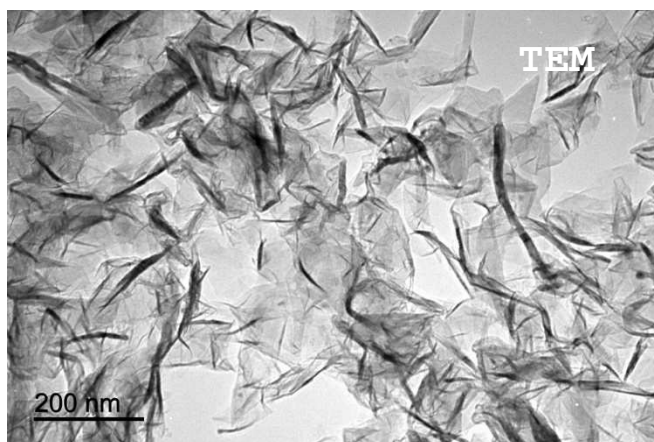
Nanolit® single layer graphene are synthesized by patented microwave plasma technique without using metal catalysts and substrate-free.

Graphene improves mechanical resistance, thermal and electrical conductivity, and permeation barrier properties of a range of composites and formulations.

### PROPERTIES

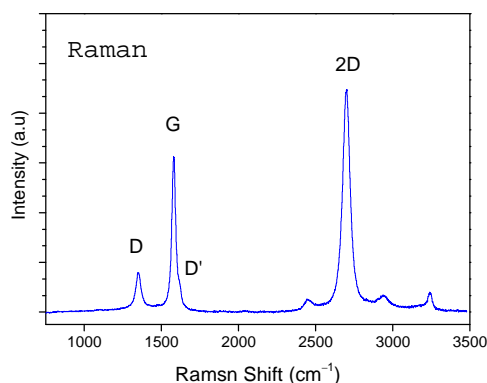
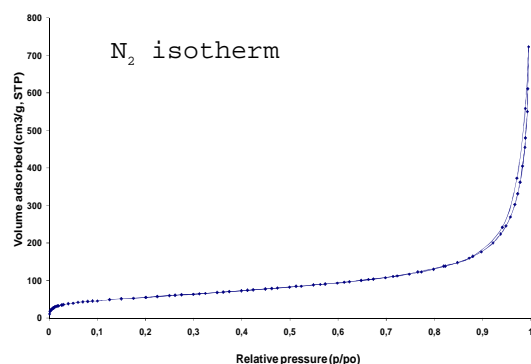
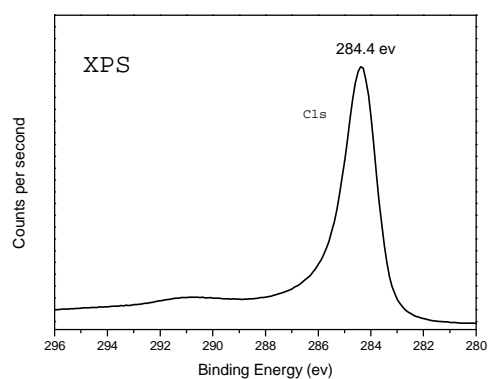
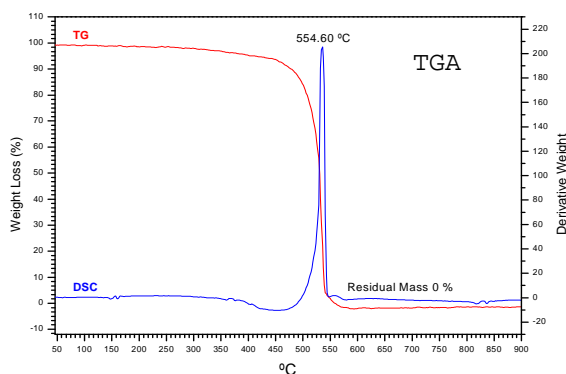
Technical data of graphene water dispersion are the following:

Parameter	Value
BET area (m <sup>2</sup> /g)	200
Pore volume (cm <sup>3</sup> /g)	0.77
Concentration	~0.4 %
Metal content (%)	n.d.
Sheet dimension	variable
Dispersant	water
Form	dispersion



### TEXTURAL AND SPECTRAL ANALYSIS

TGA, TEM, XPS and Raman spectrum of single layer graphene



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# TECHNICAL DATA

## Graphene (water dispersion)

### APPLICATIONS

For research in the following fields:

- Water and gas treatment
- Fuel cells
- Catalysis and electrocatalysis
- Conductive additive
- Sensor Systems
- Ultracapacitors
- Capacitive deionization

### PACKAGING

**NANOLIT® single layer graphene** are available in powder and water dispersions (see Product Specifications)

Dry powder: 100 mg, 500 mg and 1 g vials

Liquid Dispersion: 100 ml

The physical and chemical values are typical averages obtained by generally accepted test methods and are subject to normal manufacturing variations, therefore no guarantee is given or intended.

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